

# Features

- Tested and proved in RECOM filter design
- RoHS2+ compliant
- SMD

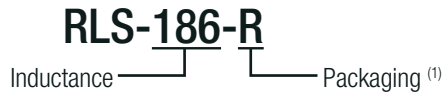
# Line Inductors

## RLS-186

# Line Inductors for RECOM Power Supply



### Model Numbering



**Notes:**

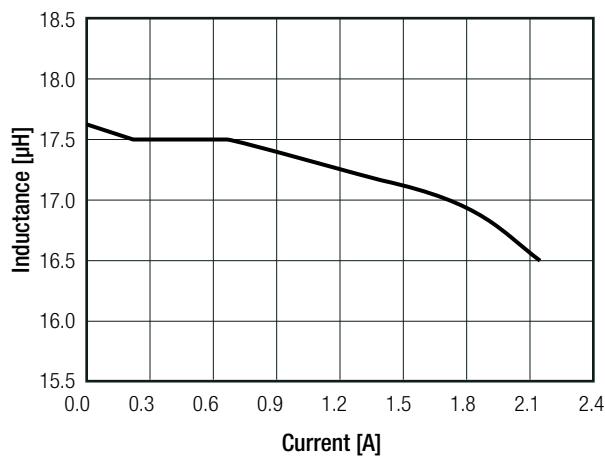
Note1: with suffix „-R“, standard packaging tape and reel without suffix optional airbag packaging

### Specifications (measured @ Ta= 25°C, unless otherwise stated)

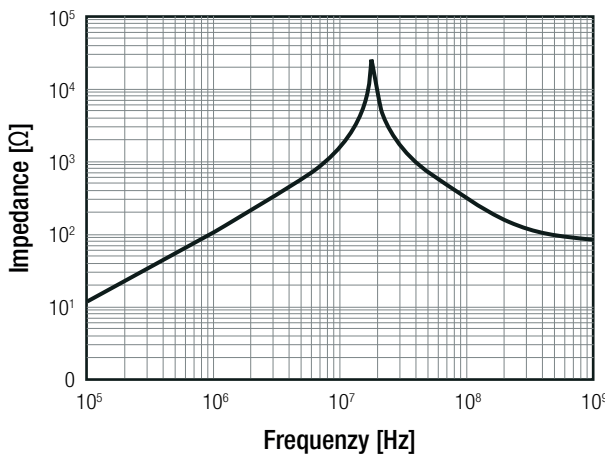
| BASIC CHARACTERISTICS |                  |               |            |
|-----------------------|------------------|---------------|------------|
| Parameter             |                  | Condition     | Value      |
| Inductance            | L                | 100kHz/250V   | 18µH ±10%  |
| DC Resistance         | RDC              | @ 25°C        | 100mΩ max. |
| Rated Current         | I <sub>R</sub>   | ΔT ≤ 40°C     | 1.89A max. |
| Saturation Current    | I <sub>sat</sub> | I ΔL/LI < 10% | 2.14A typ. |



Inductance vs. Current graph



Impedance graph



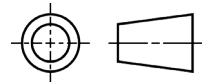
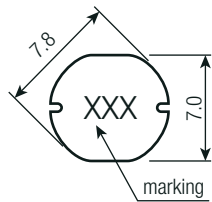
**Specifications** (measured @ Ta= 25°C, unless otherwise stated)

| ENVIRONMENTAL               |                |                 |
|-----------------------------|----------------|-----------------|
| Parameter                   | Condition      | Value           |
| Operating Temperature Range | with derating  | -40°C to +105°C |
| Operating Humidity          | non-condensing | 95% RH max.     |

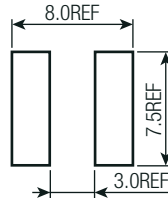
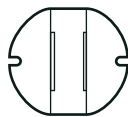
**DIMENSION AND PHYSICAL CHARACTERISTICS**

| Parameter         | Type | Value             |
|-------------------|------|-------------------|
| Dimension (LxWxH) |      | 7.8 x 7.0 x 5.0mm |
| Weight            |      | 1.00g typ.        |

**Dimension Drawing (mm)**



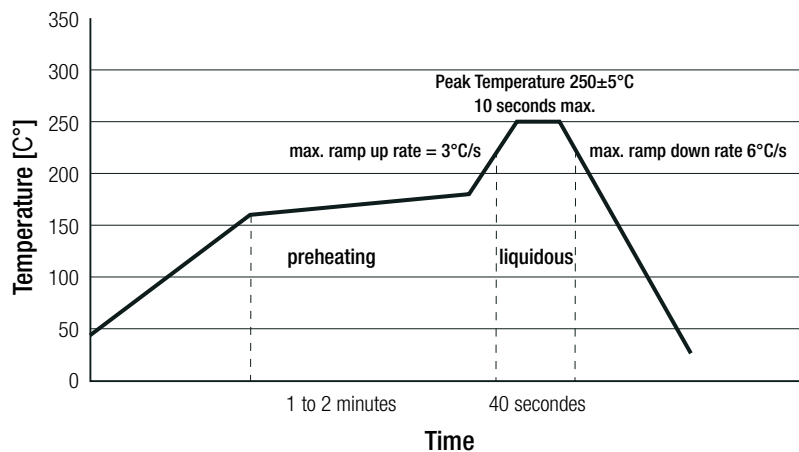
**Recommended Footprint Details**



Tolerance: xx.x= ±0.3mm

**APPLICATION INFORMATION**

**Classification Reflow Profile for SMT**



**Specifications** (measured @ Ta= 25°C, unless otherwise stated)

| PACKAGING INFORMATION       |                                  |  |
|-----------------------------|----------------------------------|--|
| Parameter                   | Type                             | Value  |
| Packaging Dimension (LxWxH) | tape and reel (carton)<br>airbag | 355.0 x 340.0 x 35.0mm<br>120.0 x 100.0 x 30.0mm |
| Packaging Quantity          | tape and reel<br>airbag          | 1000pcs<br>50pcs                                 |
| Tape Width                  |                                  | 16.0mm   |
| Storage Temperature Range   |                                  | -55°C to +125°C                                  |
| Storage Humidity            | non-condensing                   | 95% RH max.                                      |

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